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Keeping Systems Functioning: The Challenge of Construction, Maintenance, and Extensions in Money Constrained Times

William Cantrell, President, TECO Peoples Gas
Maintenance Capital

- Replacing bare steel/cast iron pipe
- Back-feeding/looping territory
- Mandates:
  - facility relocations
  - pipeline integrity
Appropriate Recovery

- Timely recovery
- Predictable process
- Example:

  Gas System Reliability Rider
Benefits of Natural Gas

• Clean
  sulfur, mercury, nitrogen, particulates, carbon

• Energy Efficient

• Domestic
  97% comes from North America

• Reliable
Direct Use of Natural Gas

- Energy savings of 1.25-2.00 quads in 2030
- Energy cost reduction of $18-$29 billion by 2030
- Carbon emission reductions of 60-225 million tons
- Electric generation capacity avoidance of 63-80 GW

avoided investment of $49-$122 billion
Smart Energy Grid

Should include natural gas applications:

• **Generation**: natural gas used for generation fuel

• **Transmission/Distribution**: natural gas used to reduce peak demand and infrastructure requirements

• **Distribution/Customer Service**: natural gas used in direct use at consumer site
Smart Transportation Grid

• Electric Vehicles
  passenger sedans
  commuter vehicles

• Natural Gas Vehicles
  fleets
  transit and school buses
  shuttle vans
  garbage and other heavy-duty vehicles